Title: MAC ADDRESS NOTIFICATION
METHOD IN MPOA SYSTEMS AND
MPOA SERVER FOR THE SAME
Inventor(s): Koichi HORIKAWA
DOCKET NO.: 040447-0236

FIG.1

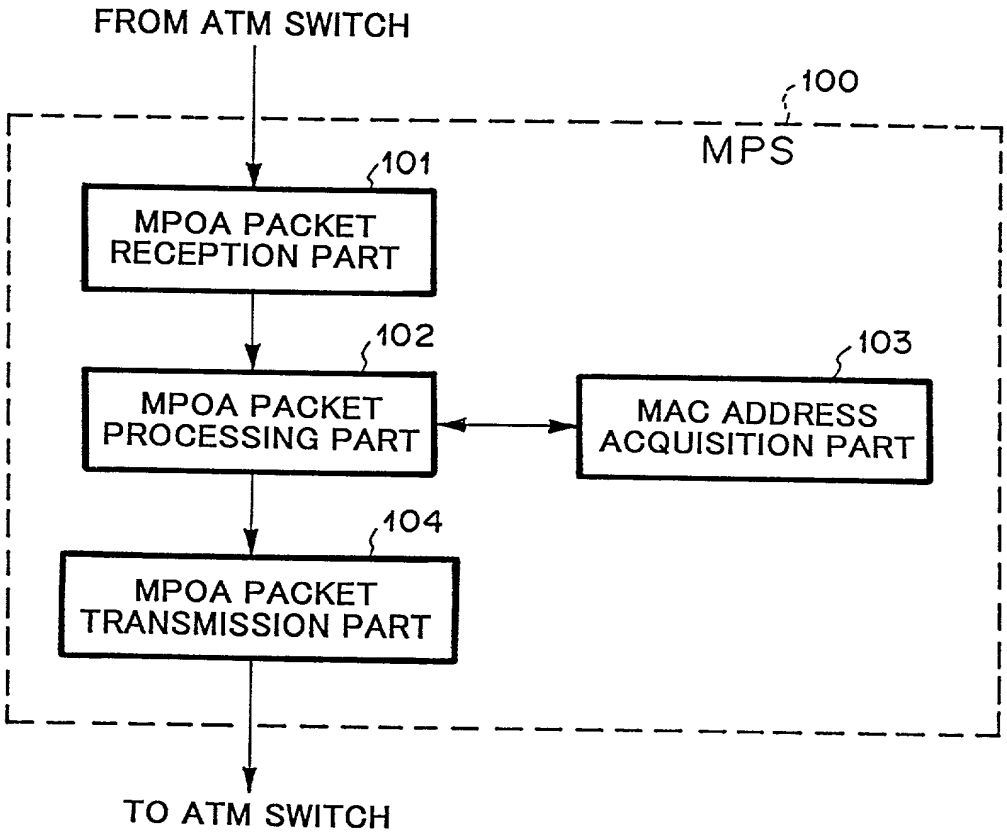


FIG.2A

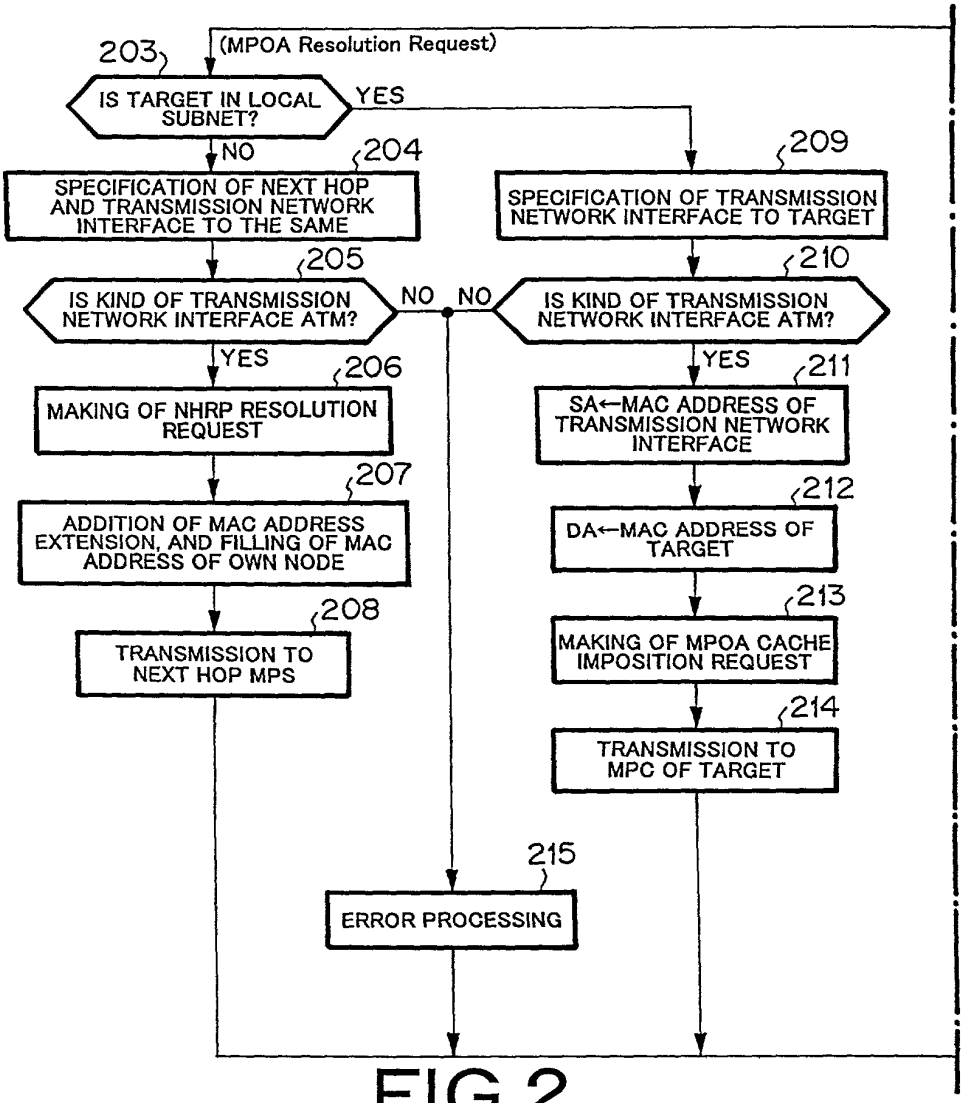
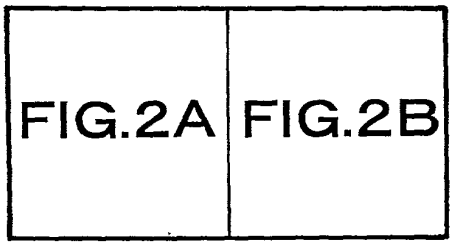



FIG.2




Docket 040447-0236

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FIG.2B

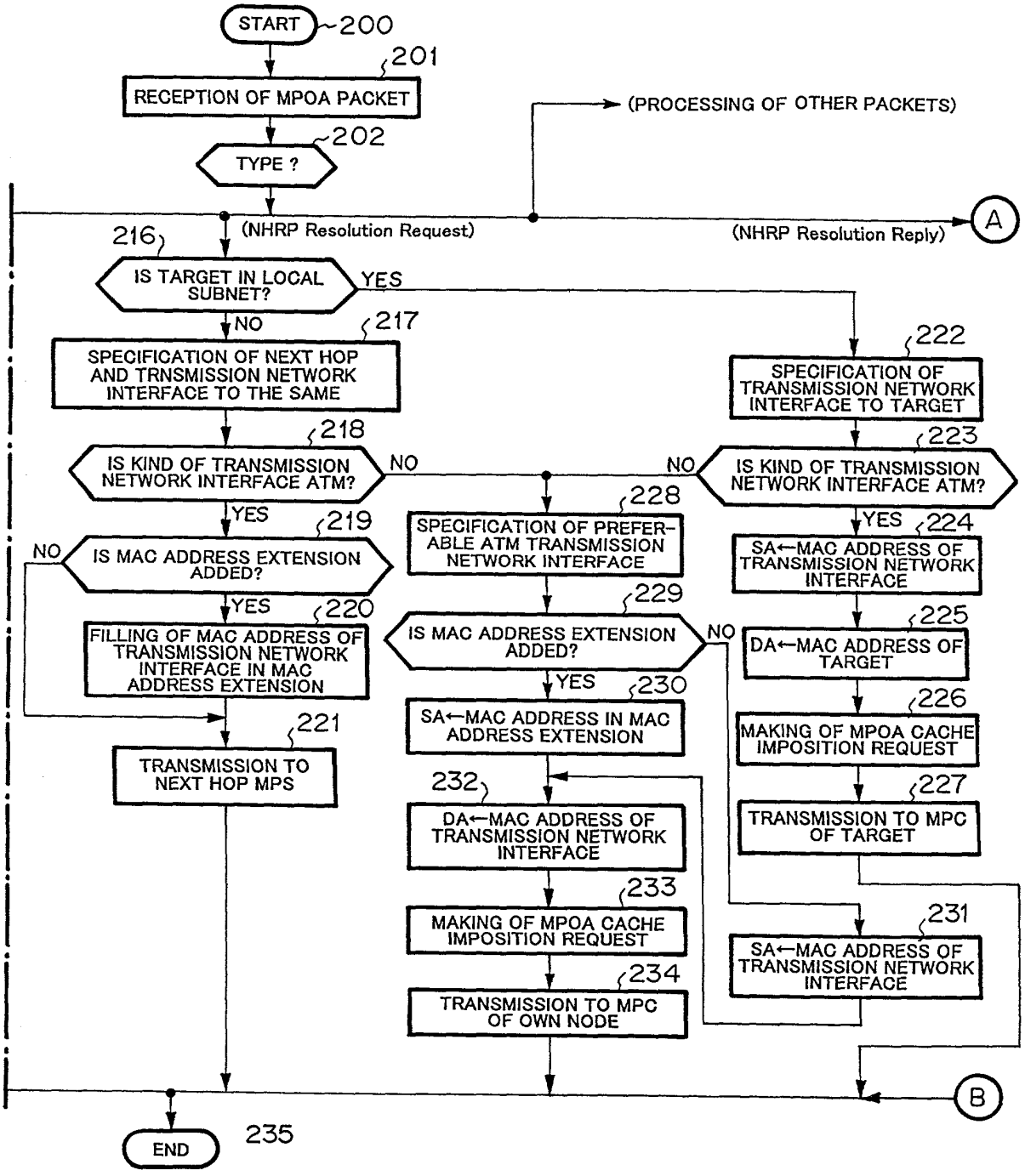


FIG.3

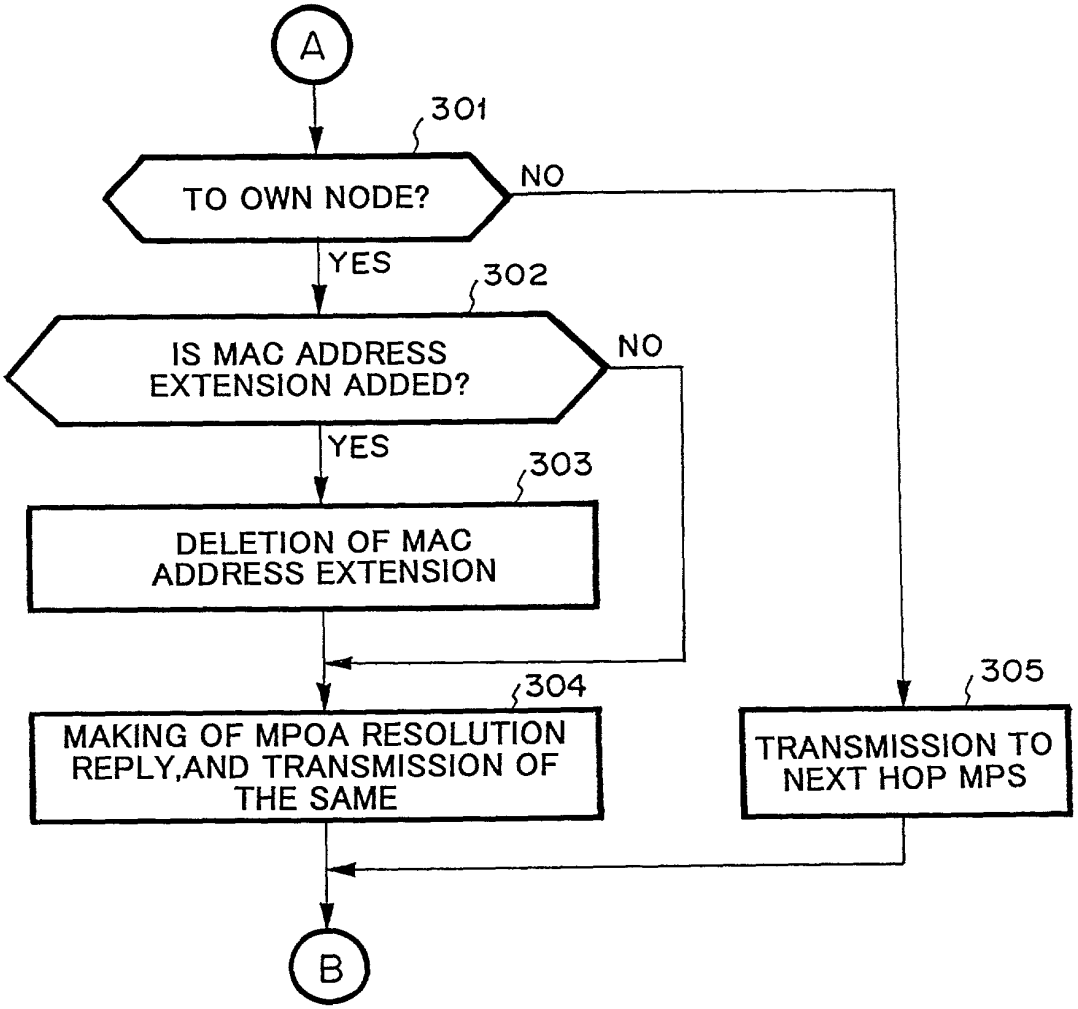

A
301
TO OWN NODE?
NO
YES
302
IS MAC ADDRESS EXTENSION ADDED?
NO
YES
303
DELETION OF MAC ADDRESS EXTENSION
304
MAKING OF MPOA RESOLUTION REPLY,AND TRANSMISSION OF THE SAME
305
TRANSMISSION TO NEXT HOP MPS
B

FIG.4

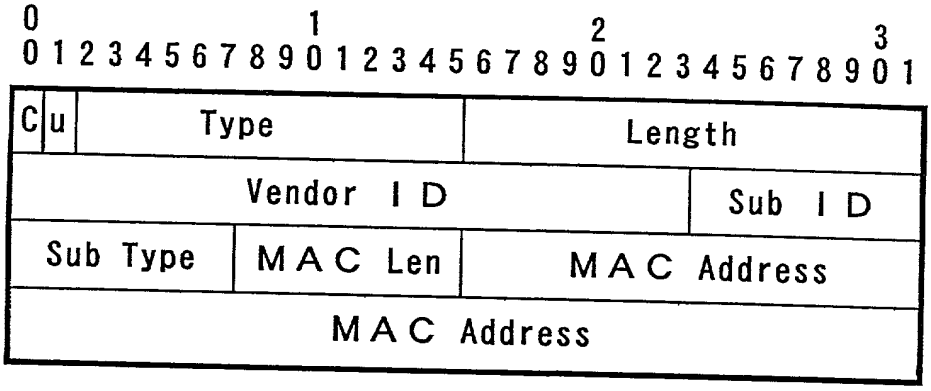

0 1 2 3
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
C u
Type
Length
Vendor I D
Sub I D
Sub Type
M A C Len
M A C Address
M A C Address

FIG.5

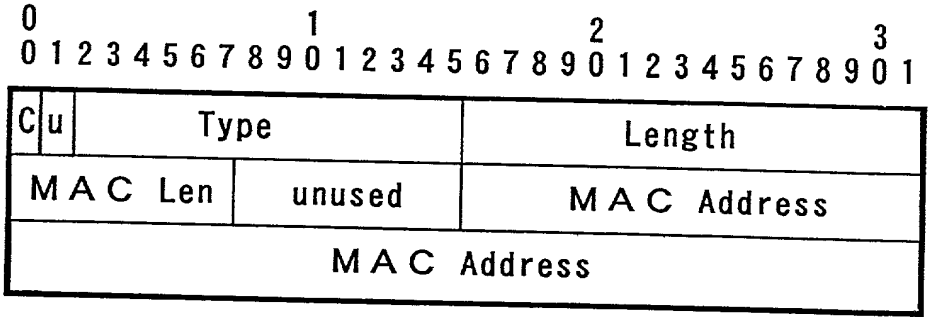

0 1 2 3
0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
C u
Type
Length
M A C Len
unused
M A C Address
M A C Address

FIG.6

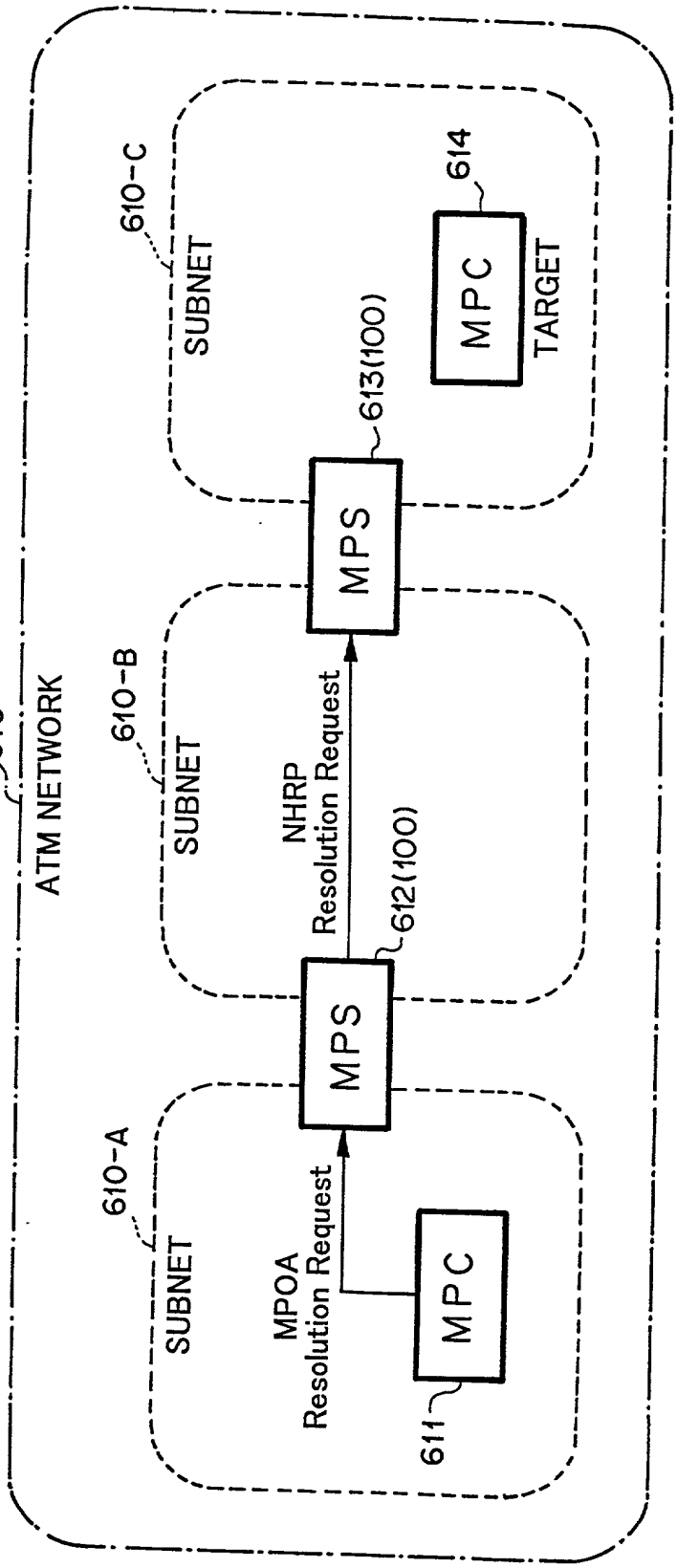

610
ATM NETWORK
610-A
SUBNET
610-B
SUBNET
610-C
SUBNET
MPC
611
MPOA
Resolution Request
MPS
612(100)
NHRP
Resolution Request
MPS
613(100)
MPC
614
TARGET

FIG.7

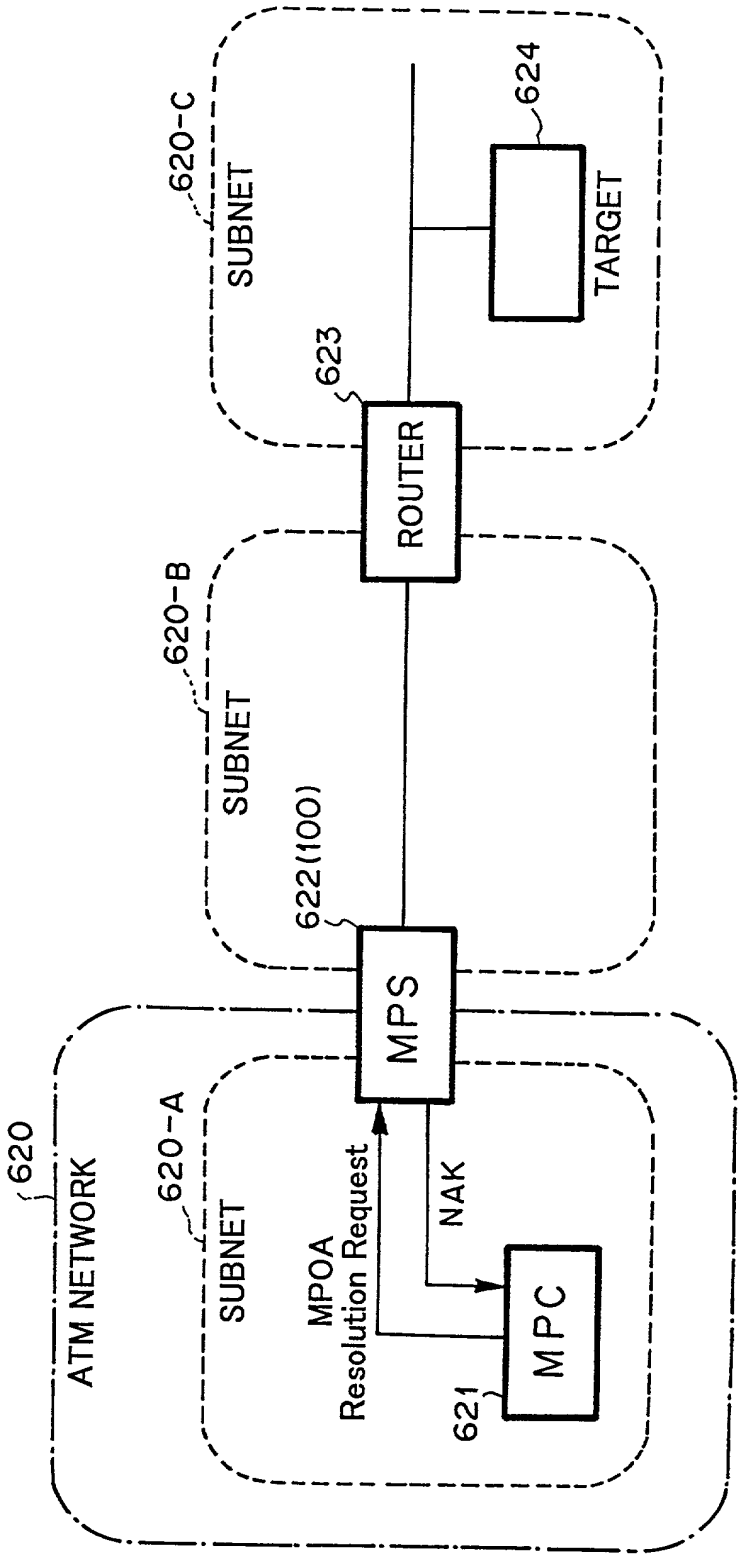

620
ATM NETWORK
620-A
SUBNET
MPC
621
MPOA
Resolution Request
NAK
MPS
622(100)
620-B
SUBNET
ROUTER
623
620-C
SUBNET
624
TARGET

FIG.8

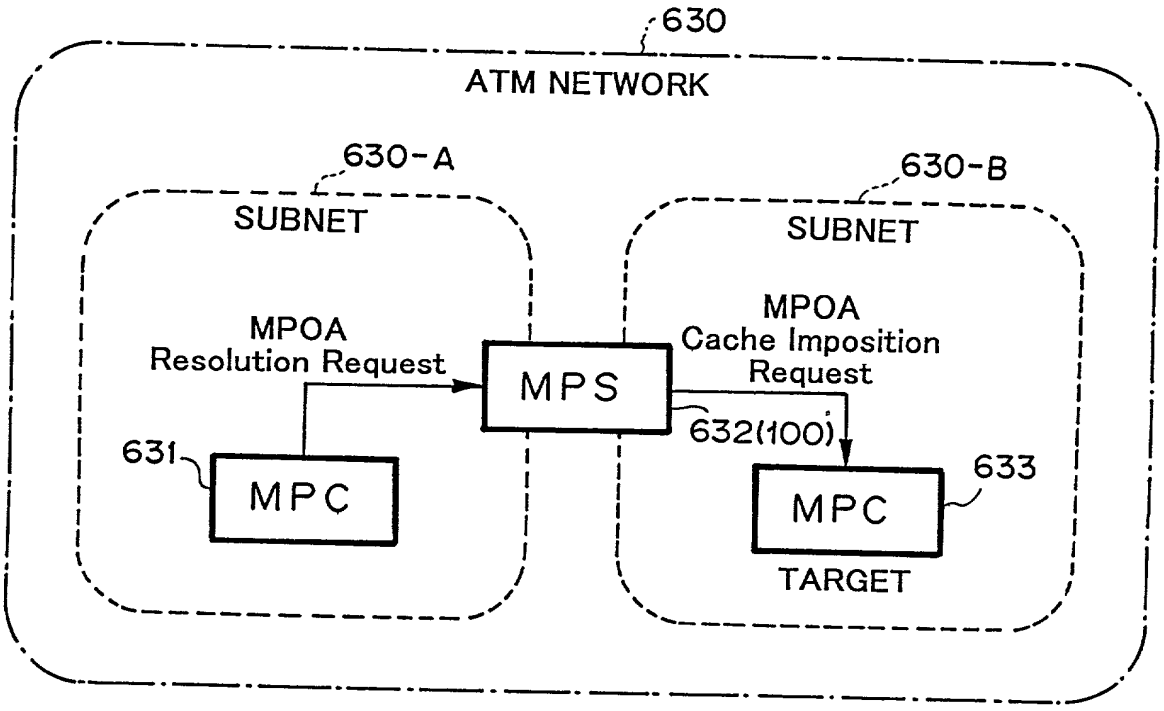

630
ATM NETWORK
630-A
SUBNET
630-B
SUBNET
MPOA
Resolution Request
MPS
MPOA
Cache Imposition
Request
632(100)
631
MPC
633
MPC
TARGET

FIG.9

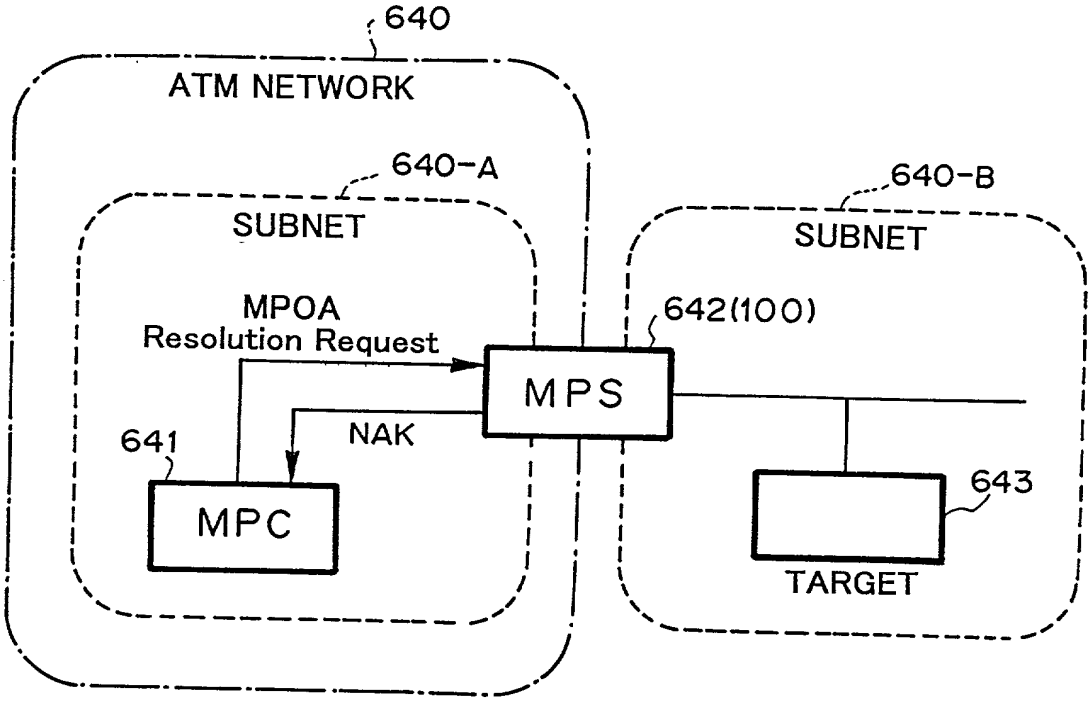

640
ATM NETWORK
640-A
SUBNET
640-B
SUBNET
MPOA
Resolution Request
642(100)
MPS
NAK
641
MPC
643
TARGET

FIG.10

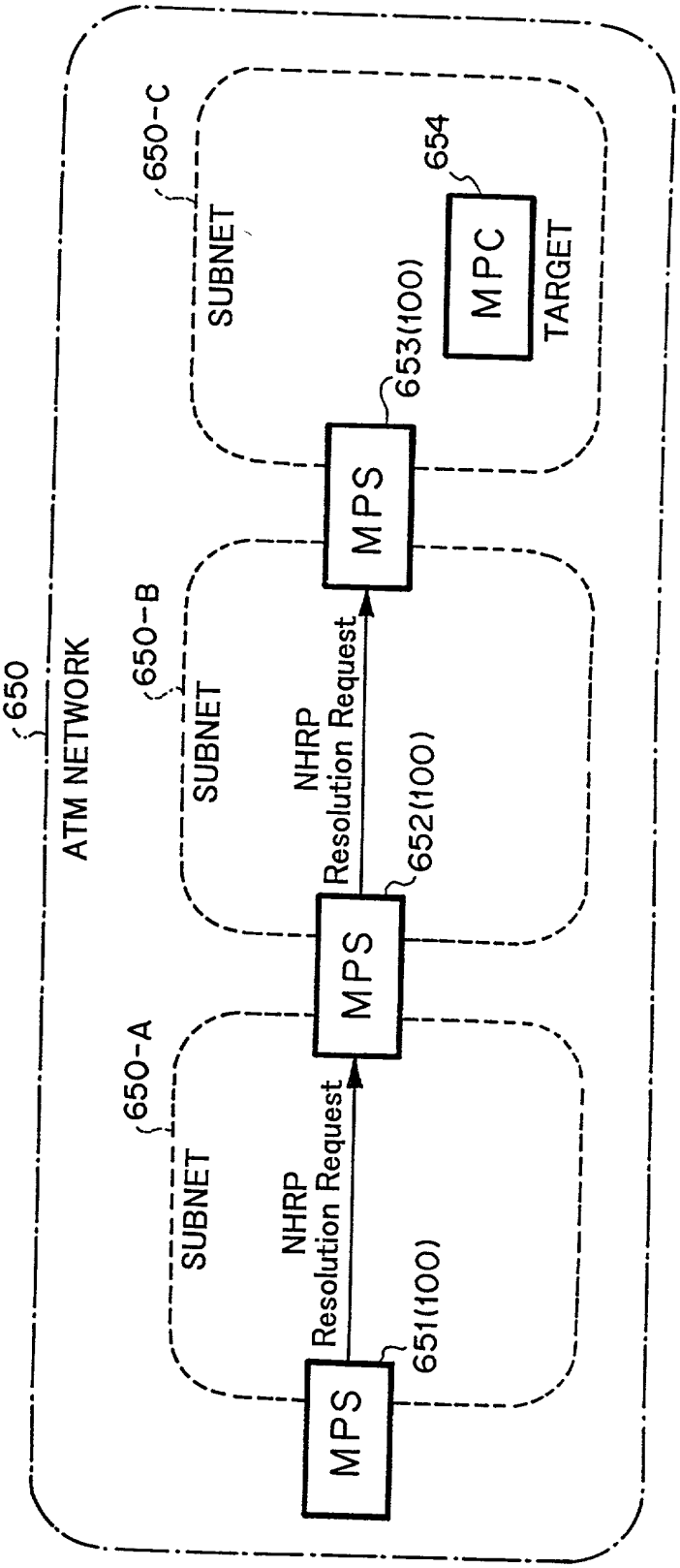

650
ATM NETWORK
650-A
SUBNET
650-B
SUBNET
650-C
SUBNET
MPS
MPS
MPS
NHRP
Resolution Request
NHRP
Resolution Request
651(100)
652(100)
653(100)
MPC
654
TARGET

FIG.11

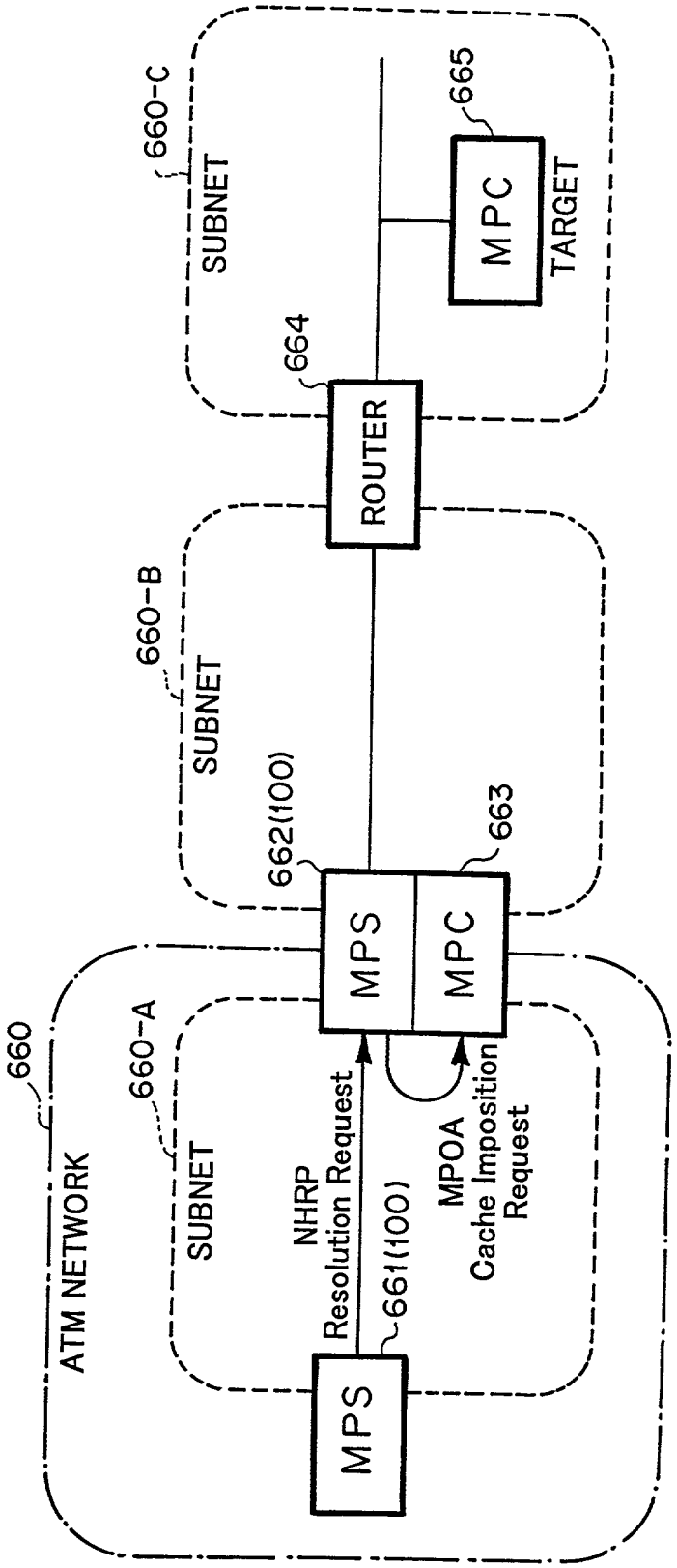

660-C
SUBNET
665
MPC
TARGET
664
ROUTER
660-B
SUBNET
662(100)
663
MPS
MPC
660
ATM NETWORK
660-A
SUBNET
NHRP
Resolution Request
661(100)
MPOA
Cache Imposition
Request
MPS

FIG.12

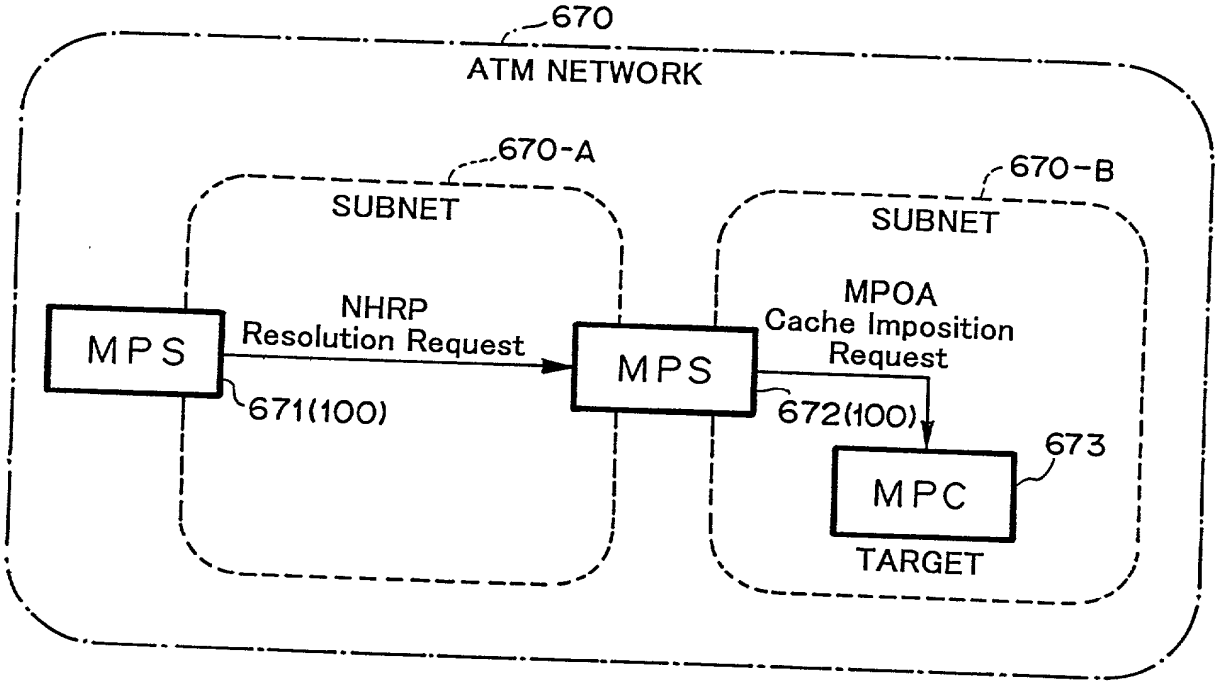

670
ATM NETWORK
670-A
SUBNET
670-B
SUBNET
MPS
NHRP
Resolution Request
671(100)
MPS
MPOA
Cache Imposition
Request
672(100)
673
MPC
TARGET

FIG.13

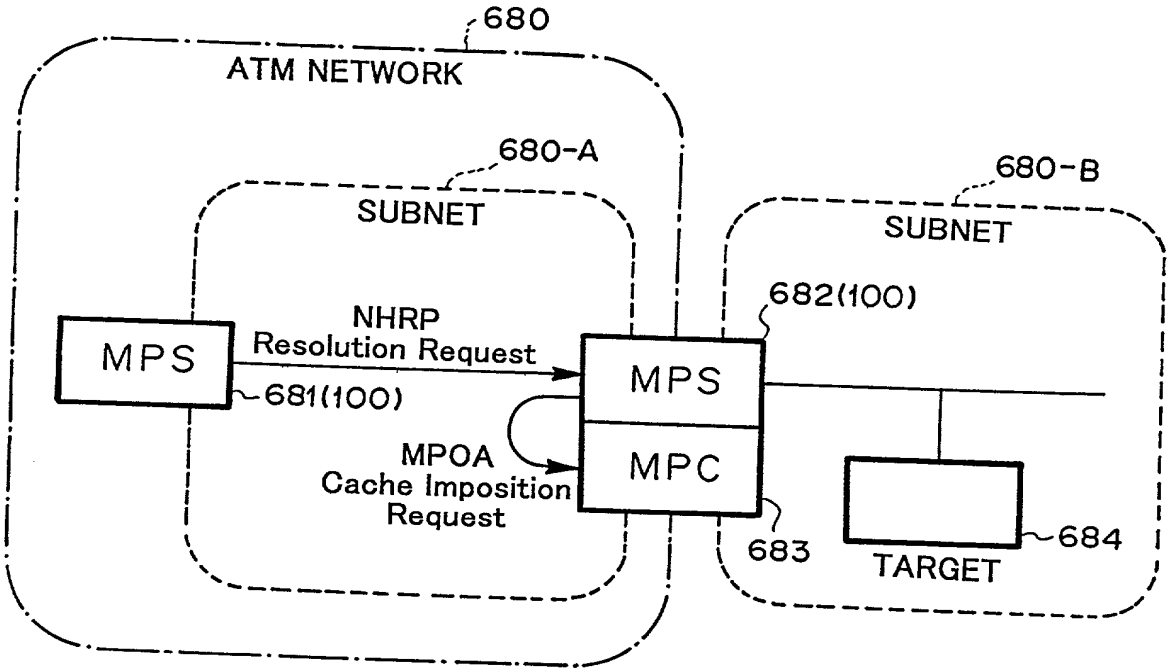
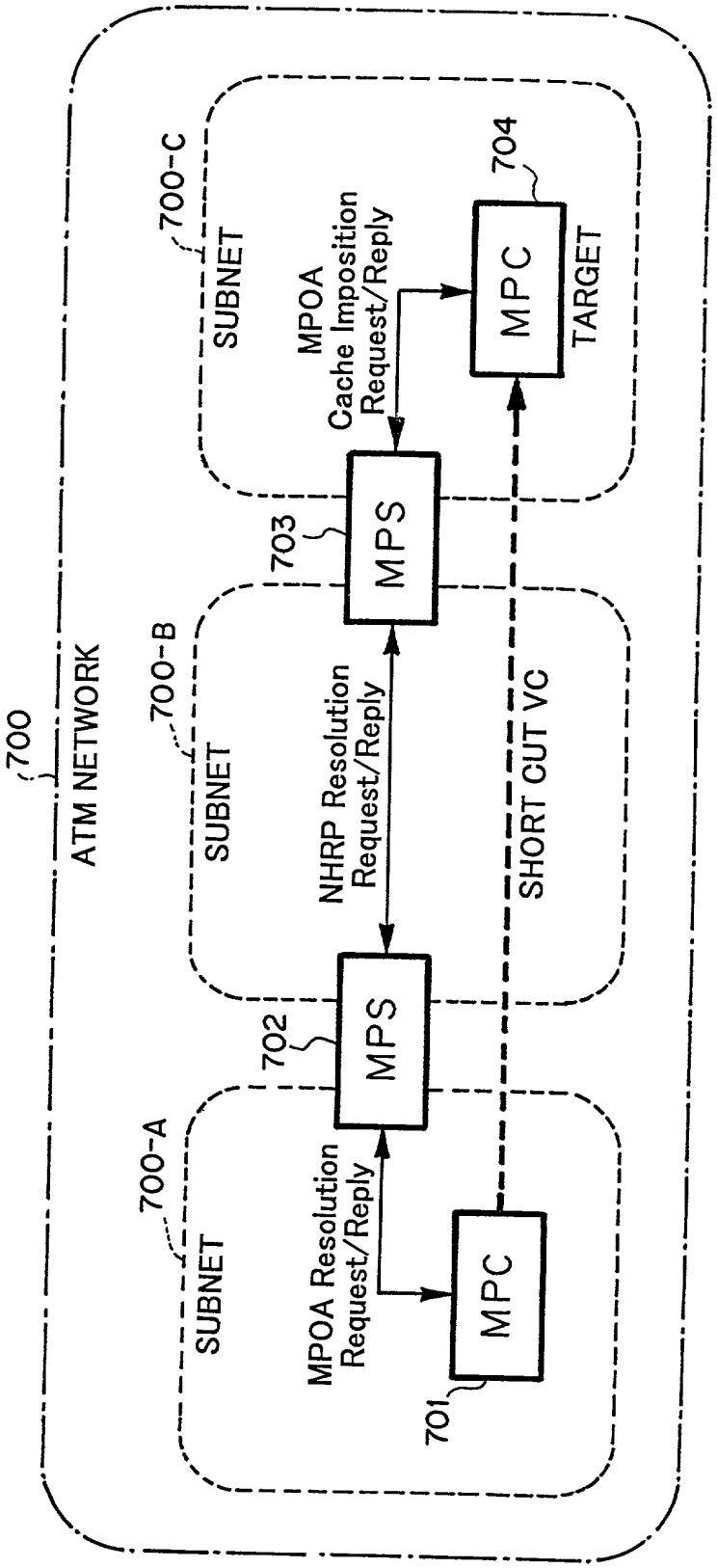

680
ATM NETWORK
680-A
SUBNET
680-B
SUBNET
682(100)
MPS
NHRP
Resolution Request
681(100)
MPS
MPOA
Cache Imposition
Request
MPC
683
684
TARGET

FIG.14
PRIOR ART



Patent Application Publication

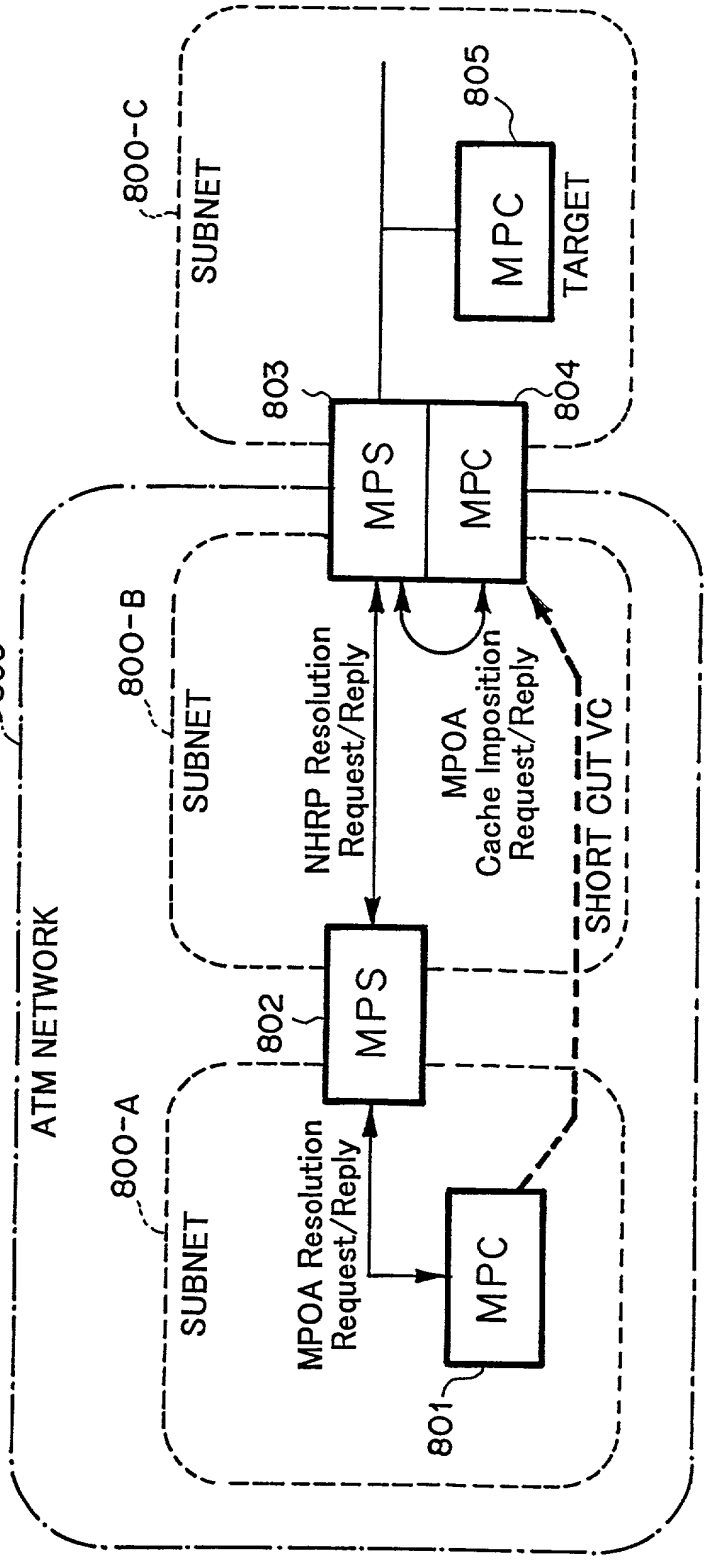



FIG.15
PRIOR ART